Page 1 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

cgctctagcc cggtgggaag ctttcatcca gaaca atg aat ttc ata aag gac 53 Met Asn Phe Ile Lys Asp aat agc cga gcc ctt att caa aga atg gga atg act gtt ata aag caa 101 Asn Ser Arg Ala Leu Ile Gln Arg Met Gly Met Thr Val Ile Lys Gln 10 15 atc aca gat gac cta ttt gta tgg aat gtt ctg aat cgc gaa gaa gta 149 Ile Thr Asp Asp Leu Phe Val Trp Asn Val Leu Asn Arg Glu Glu Val aac atc att tgc tgc gag aag gtg gag cag gat gct gct aga ggg atc 197 Asn Ile Ile Cys Cys Glu Lys Val Glu Gln Asp Ala Ala Arg Gly Ile 40 att cac atg att ttg aaa aag ggt tca gag tcc tgt aac ctc ttt ctt 245 Ile His Met Ile Leu Lys Lys Gly Ser Glu Ser Cys Asn Leu Phe Leu aaa too ott aag gag tgg aac tat oot ota ttt cag gac ttg aat gga 293 Lys Ser Leu Lys Glu Trp Asn Tyr Pro Leu Phe Gln Asp Leu Asn Gly caa agt ctt ttt cat cag aca tca gaa gga gac ttg gac gat ttg gct 341 Gln Ser Leu Phe His Gln Thr Ser Glu Gly Asp Leu Asp Asp Leu Ala 90 cag gat tta aag gac ttg tac cat acc cca tct ttt ctg aac ttt tat 389 Gln Asp Leu Lys Asp Leu Tyr His Thr Pro Ser Phe Leu Asn Phe Tyr 110 ccc ctt ggt gaa gat att gac att att ttt aac ttg aaa agc acc ttc 437 Pro Leu Gly Glu Asp Ile Asp Ile Ile Phe Asn Leu Lys Ser Thr Phe aca gaa cct gtc ctg tgg agg aag gac caa cac cat cac cgc gtg gag 485 Thr Glu Pro Val Leu Trp Arg Lys Asp Gln His His Arg Val Glu cag ctg acc ctg aat ggc ctc ctg cag gct ctt cag agc ccc tgc atc 533 Gln Leu Thr Leu Asn Gly Leu Leu Gln Ala Leu Gln Ser Pro Cys Ile 155 att gaa ggg gaa tot ggc aaa ggc aag too act otg otg cag ogc att 581 Ile Glu Gly Glu Ser Gly Lys Gly Lys Ser Thr Leu Leu Gln Arg Ile 170 gcc atg ctc tgg ggc tcc gga aag tgc aag gct ctg acc aag ttc aaa 629 Ala Met Leu Trp Gly Ser Gly Lys Cys Lys Ala Leu Thr Lys Phe Lys 185 ttc gtc ttc ttc ctc cgt ctc agc agg gcc cag ggt gga ctt ttt gaa 677 Phe Val Phe Phe Leu Arg Leu Ser Arg Ala Gln Gly Gly Leu Phe Glu 200 205 210

FIG. 1A

Page 2 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

acc Thr 215	ctc Leu	tgt Cys	gat Asp	caa Gln	ctc Leu 220	ctg Leu	gat Asp	ata Ile	cct Pro	ggc Gly 225	aca Thr	atc Ile	agg Arg	aag Lys	cag Gln 230	725
aca Thr	ttc Phe	atg Met	gcc Ala	atg Me t 235	ctg Leu	ctg Leu	aag Lys	ctg Leu	cgg Arg 240	cag Gln	agg Arg	gtt Val	ctt Leu	ttc Phe 245	ctt Leu	773
ctt Leu	gat Asp	ggc Gly	tac Tyr 250	aat Asn	gaa Glu	ttc Phe	aag Lys	ccc Pro 255	cag Gln	aac Asn	tgc Cys	cca Pro	gaa Glu 260	atc Ile	gaa Glu	821
gcc Ala	ctg Leu	ata Ile 265	aag Lys	gaa Glu	aac Asn	cac His	cgc Arg 270	ttc Phe	aag Lys	aac Asn	atg Met	gtc Val 275	atc Ile	gtc Val	acc Thr	869
act Thr	acc Thr 280	act Thr	gag Glu	tgc Cys	ctg Leu	agg Arg 285	cac His	ata Ile	cgg Arg	cag Gln	ttt Phe 290	ggt Gly	gcc Ala	ctg Leu	act Thr	917
gct Ala 295	gag Glu	gtg Val	gly ggg	gat Asp	atg Met 300	aca Thr	gaa Glu	gac Asp	agc Ser	gcc Ala 305	cag Gln	gct Ala	ctc Leu	atc Ile	cga Arg 310	965
gaa Glu	gtg Val	ctg Leu	atc Ile	aag Lys 315	gag Glu	ctt Leu	gct Ala	gaa Glu	ggc Gly 320	ttg Leu	ttg Leu	ctc Leu	caa Gln	att Ile 325	cag Gln	1013
aaa Lys	tcc Ser	agg Arg	tgc Cys 330	ttg Leu	agg Arg	aat Asn	ctc Leu	atg Met 335	aag Lys	acc Thr	cct Pro	ctc Leu	ttt Phe 340	gtg Val	gtc Val	1061
atc Ile	act Thr	tgt Cys 345	gca Ala	atc Ile	cag Gln	atg Met	ggt Gly 350	gaa Glu	agt Ser	gag Glu	ttc Phe	cac His 355	tct Ser	cac His	aca Thr	1109
caa Gln	aca Thr 360	acg Thr	ctg Leu	ttc Phe	cat His	acc Thr 365	ttc Phe	tat Tyr	gat Asp	ctg Leu	ttg Leu 370	ata Ile	cag Gln	aaa Lys	aac Asn	1157
aaa Lys 375	cac His	aaa Lys	cat His	aaa Lys	ggt Gly 380	gtg Val	gct Ala	gca Ala	agt Ser	gac Asp 385	ttc Phe	att Ile	cgg Arg	agc Ser	ctg Leu 390	1205
gac Asp	cac His	tgt Cys	gga Gly	gac Asp 395	cta Leu	gct Ala	ctg Leu	gag Glu	ggt Gly 400	gtg Val	ttc Phe	tcc Ser	cac His	aag Lys 405	ttt Phe	1253
gat Asp	ttc Phe	gaa Glu	ctg Leu 410	cag Gln	gat Asp	gtg Val	tcc Ser	agc Ser 415	gtg Val	aat Asn	gag Glu	gat Asp	gtc Val 420	ctg Leu	ctg Leu	1301
aca Thr	act Thr	ggg Gly 425	ctc Leu	ctc Leu	tgt Cys	aaa Lys	tat Tyr 430	aca Thr	gct Ala	caa Gln	agg Arg	ttc Phe 435	aag Lys	cca Pro	Lys	1349

FIG. 1B

Page 3 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

tat Tyr	aaa Lys 440	ttc Phe	ttt Phe	cac His	aag Lys	tca Ser 445	ttc Phe	c a g Gln	gag Glu	tac Tyr	aca Thr 450	gca Ala	gga Gly	cga Arg	aga Arg	1397
ctc Leu 455	agc Ser	agt Ser	tta Leu	ttg Leu	acg Thr 460	tct Ser	cat His	gag Glu	cca Pro	gag Glu 465	gag Glu	gtg Val	acc Thr	aag Lys	ggg Gly 470	1445
aat Asn	g g t Gly	tac Tyr	ttg Leu	cag Gln 475	aaa Lys	atg Met	gtt Val	tcc Ser	att Ile 480	tcg Ser	gac Asp	att Ile	aca Thr	tcc Ser 485	act Thr	1493
tat Tyr	agc S e r	agc Ser	ctg Leu 490	ctc Leu	cgg Arg	tac Tyr	acc Thr	tgt Cys 495	ggg Gly	tca Ser	tct Ser	gtg Val	gaa Glu 500	gcc Ala	acc Thr	1541
agg Arg	gct Ala	gtt Val 505	atg Met	aag Lys	cac His	ctc Leu	gca Ala 510	gca Ala	gtg Val	tat Tyr	caa Gln	cac His 515	ggc Gly	tgc Cys	ctt Leu	1589
ctc Leu	gga Gly 520	ctt Leu	tcc Ser	atc Ile	gcc Ala	aag Lys 525	agg Arg	cct Pro	ctc Leu	tgg Trp	aga Arg 530	cag Gln	gaa Glu	tct Ser	ttg Leu	1637
caa Gln 535	agt Ser	gtg Val	aaa Lys	aac Asn	acc Thr 540	act Thr	gag Glu	caa Gln	gaa Glu	att Ile 545	ctg Leu	aaa Lys	gcc Ala	ata Ile	aac Asn 550	1685
atc Ile	aat Asn	tcc Ser	ttt Phe	gta Val 555	gag Glu	tgt Cys	ggc Gly	atc Ile	cat His 560	tta Leu	tat Tyr	caa Gln	gag Glu	agt Ser 565	aca Thr	1733
tcc Ser	aaa Lys	tca Ser	gcc Ala 570	ctg Leu	agc Ser	caa Gln	gaa Glu	ttt Phe 575	gaa Glu	gct Ala	ttc Phe	ttt Phe	caa Gln 580	ggt Gly	aaa Lys	1781
agc Ser	tta Leu	tat Tyr 585	atc Ile	aac Asn	tca Ser	Gly ggg	aac Asn 590	atc Ile	ccc Pro	gat Asp	tac Tyr	tta Leu 595	ttt Phe	gac Asp	ttc Phe	1829
ttt Phe	gaa Glu 600	cat His	ttg Leu	ccc Pro	aat Asn	tgt Cys 605	gca Ala	agt Ser	gct Ala	ctg Leu	gac Asp 610	ttc Phe	att Ile	aaa Lys	ctg Leu	1877
gac Asp 615	ttt Phe	tat Tyr	gg g	gga Gly	gct Ala 620	atg Met	gct Ala	tca Ser	tgg Trp	gaa Glu 625	aag Lys	gct Ala	gca Ala	gaa Glu	gac Asp 630	1925
aca Thr	ggt Gly	gga Gly	atc Ile	cac His 635	atg Met	gaa Glu	gag Glu	gcc Ala	cca Pro 640	gaa Glu	acc Thr	tac Tyr	att Ile	ccc Pro 645	agc Ser	1973
agg Arg	gct Ala	gta Val	tct Ser 650	ttg Leu	ttc Phe	ttc Phe	aac Asn	tgg Trp 655	aag Lys	cag Gln	gaa Glu	ttc Phe	agg Arg 660	act Thr	ctg Leu	2021

FIG. 1C

Page 4 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

gag Glu	gtc Val	aca Thr 665	ctc Leu	cgg Arg	gat Asp	ttc Phe	agc Ser 670	aag Lys	ttg Leu	aat Asn	aag Lys	caa Gln 675	gat Asp	atc Ile	aca Thr	2069
tat Tyr	ctg Leu 680	ggg Gly	aaa Lys	ata Ile	ttc Phe	agc Ser 685	tct Ser	gcc Ala	aca Thr	agc Ser	ctc Leu 690	agg Arg	ctg Leu	caa Gln	ata Ile	2117
aag Lys 695	aga Arg	tgt Cys	gct Ala	ggt Gly	gtg Val 700	gct Ala	gga Gly	agc Ser	ctc Leu	agt Ser 705	ttg Leu	gtc Val	ctc Leu	agc Ser	acc Thr 710	2165
tgt Cys	aag Lys	aac Asn	att Ile	tat Tyr 715	tct Ser	ctc Leu	atg Met	gtg Val	gaa Glu 720	gcc Ala	agt Ser	ccc Pro	ctc Leu	acc Thr 725	ata Ile	2213
gaa Glu	gat Asp	gag Glu	agg Arg 730	cac His	atc Ile	aca Thr	tct Ser	gta Val 735	aca Thr	aac Asn	ctg Leu	aaa Lys	acc Thr 740	ttg Leu	agt Ser	2261
att Ile	cat His	gac Asp 745	cta Leu	cag Gln	aat Asn	caa Gln	cgg Arg 750	ctg Leu	ccg Pro	ggt Gly	g gt Gly	ctg Leu 755	act Thr	gac Asp	agc Ser	2309
ttg Leu	ggt Gly 760	aac Asn	ttg Leu	aag Lys	aac Asn	ctt Leu 765	aca Thr	aag Lys	ctc Leu	ata Ile	atg Met 770	gat Asp	aac Asn	ata Ile	aag Lys	2357
atg Met 775	aat Asn	gaa Glu	gaa Glu	gat Asp	gct Ala 780	ata Ile	aaa Lys	cta Leu	gct Ala	gaa Glu 785	ggc Gly	ctg Leu	aaa Lys	aac Asn	ctg Leu 790	2405
aag Lys	aag Lys	atg Met	tgt Cys	tta Leu 795	ttt Phe	cat His	ttg Leu	acc Thr	cac His 800	ttg Leu	tct Ser	gac Asp	att Ile	gga Gly 805	gag Glu	2453
gga Gly	atg Met	gat Asp	tac Tyr 810	ata Ile	gtc Val	aag Lys	tct Ser	ctg Leu 815	tca Ser	agt Ser	g aa Glu	ccc Pro	tgt Cys 820	gac Asp	ctt Leu	2501
gaa Glu	gaa Glu	att Ile 825	caa Gln	tta Leu	gtc Val	tcc Ser	tgc Cys 830	tgc Cys	ttg Leu	tct Ser	gca Ala	aat Asn 835	gca Ala	gtg Val	aaa Lys	2549
atc Ile	cta Leu 840	gct Ala	cag Gln	aat Asn	ctt Leu	cac His 845	aat Asn	ttg Leu	gtc Val	aaa Lys	ctg Leu 850	agc Ser	att Ile	ctt Leu	gat Asp	2597
tta Leu 855	tca Ser	gaa Glu	aat Asn	tac Tyr	ctg Leu 860	gaa Glu	aaa Lys	gat Asp	gga Gly	aat Asn 865	gaa Glu	gct Ala	ctt Leu	cat His	gaa Glu 870	2645
ctg Leu	atc Ile	gac Asp	agg Arg	atg Met 875	aac Asn	gtg Val	cta Leu	gaa Glu	Gln	ctc Leu	acc Thr	gca Ala	ctg Leu	Met	ctg Leu	2693
				3,3					880					885	FIG.	1D

Page 5 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

	200																
						gtg Val					agc Ser						2741
	_			_		caa Gln		-	_			_				-	2789
						att Ile											2837
1		-				cag Gln 940	_	_		_				_		-	2885
	_	_				gcc Ala		_							_		2933
						ttt Phe											2981
				Lys		agc Ser			Leu					Phe			3029
	_	_	Arg		-	ggg Gly		Gln		-	_	_	Asp		_	-	3077
		Thr				aaa Lys 102	Leu					ata	aagt	gta	ctcg	aagcca	3130
	gta																3133

FIG. 1E

Page 6 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

1	ATGCTGAACGCTGGTCCCCTGGGCTCCCTTATTTCTTTTCTCTATACTTTGTCTCTGTGTCTTTTTTTT
1	TACGACTTGCGACCAGGGACCCGAGGGAATAAAGAAAGAA
71	CCAAGTCTCTCGTTCCACCTAACGAGAAACACCCACAGAACAAGAAGGTATCTGGTCTACAAGAACTCGA
24	GGTTCAGAGAGCAAGGTGGATTGCTCTTTGTGGGTGTCTTGTTCTTCCATAGACCAGATGTTCTTGAGCT S K S L V P P N E K H P Q N K K V S G L Q E L E
141	GGCCTCACTGAAACGGAAAGCAAATACAAAGAAACTTTATTTTAAAAACATGTCTTGGTCTCCCAAGAAG CCGGAGTGACTTTGCCTTTCGTTTATGTTTCTTTGAAATAAAATTTTTTGTACAGAACCAGAGGGTTCTTC
47	_A_S_L_K_R_K_A_N_T_K_K_L_Y_F_K_N_M_S_W_S_P_K_K
211	AGGGCAATTGGATTGCTCAGCCAGAGACCCTTGCAGGCAG
71	RALGLUS Q R P L Q A D T Q A A G R R E E
281	ACATTCCCCCA ACA ACAMA CA ACCA COMOGA COMOGA CAMAGA CA COA
	ACATCGGCGGAAGAACATACAAGCAGCTGGACGTCCAGAGGACGTTGAAGGGAGAATGCTGGCGGAAGAG TGTAGCCGCCTTCTTGTATGTTCGTCGACCTGCAGGTCTCCTGCAACTTCCCTCTTACGACCGCCTTCTC
94 •	H I G G R T Y K Q L D V Q R T L K G E C W R K S
351	CACACAACAGACATCGGCACGCCAGCAGGCCATCCACCAGAGGAACGACTCGGAGTTTGGCCTGGAGGTG
	G1G1G11G1C1G1AGCCGTGCGGTCCGGTCGGTCGTCCTTCCTTCACCCTCAAACCCCAACCTCAAC
± ±′2′.	TQQTSARQQAIHQRNDSEFGLEV
421	AATTTCATAAAGGACAATAGCCGAGCCCTTATTCAAAGAATGGGAATGACTGTTATAAAGCAAATCACAG
	TTAAAGTATTTCCTGTTATCGGCTCGGGAATAAGTTTCTTACCCTTACTGACAATATTTCGTTTAGTGTC N F ! K D N S R A L ! Q R M G M T V ! K Q I T
491	ATGACCTATTTGTATGGAATGTTCTGAATCGCGAAGAAGTAAACATCATTTGCTGCGAGAAGGTGGAGCA
164	TACTGGATAAACATACCTTACAAGACTTAGCGCTTCTTCATTTGTAGTAAACGACGCTCTTCCACCTCGT D D L F V W N V L N R E E V N I I C C E K V E Q
561	GGATGCTGCTAGAGGGATCATTCACATGATTTTGAAAAAGGGTTCAGAGTCCTGTAACCTCTTTCTT
187▶	DAABGIIH MILKKGSESCNLFLK
(21	
	TCCCTTAAGGAGTGGAACTATCCTCTATTTCAGGACTTGAATGGACAAAGTTTTGAGGAGACACAGAATT AGGGAATTCCTCACCTTGATAGGAGATAAAGTCCTGAACTTACCTGTTTCAAAACTCCTCTGTGTCTTAA
211	SLKEWNYPLFQDLNGQSFEETQN
701 (
(GGGTCTTCTTTAACATCACCTCTTCTCTAATAGGTCTTTTTCATCAGACATCAGAAGGAGACTTGGACGA CCCAGAAGAAATTGTAGTGGAGAAGAGATTATCCAGAAAAAGTAGTCTGTAGTCTTCCTCTGAACCTGCT
2347	V V F F N I T S S L I G L F H Q T S E G D L D D
771	PTTGGCTCAGGATTTAAAGGACTTGTACCATACCCCATCTTTTCTGAACTTTTATCCCCTTGGTGAAGAT
£	AAACCGAGTCCTAAATTTCCTGAACATGGTATGGGGTAGAAAAGACTTGAAAAAGACTTGAAAAATTTCCCCAAACCACTTCTA
	LAQDLKDLYHTPSFLNFYPLGED

Page 7 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

	$\label{eq:contract} ATTGACATTATTTTTAACTTGAAAAGCACCTTCACAGAACCTGTCCTGTGGAGGAAGGA$
281	I DI I F N L K S T F T E P V L W B K D Q H H
	ACCGCGTGGAGCAGCTGAATGGCCTCCTGCAGGCTCTTCAGAGCCCCTGCATCATTGAAGGGGA TGGCGCACCTCGTCGACTGGGACTTACCGGAGGACGTCCGAGAAGTCTCGGGGACGTAGTAACTTCCCCT
3047	HRVEQLTLQALQSPCIIEGE
	ATCTGGCAAAGGCAAGTCCACTCTGCTGCAGCGAATTGCCATGCTCTGGGGCTCCGGAAAGTGCAAGGCT TAGACCGTTTCCGTTCAGGTGAGACGACGTCGCTTAACGGTACGAGACCCCGAGGCCTTTCACGTTCCGA SGKGKSTLLQRIAMLWGSGKCC
1051	CTGACCAAGTTCAAATTCGTCTTCCTCCGTCTCAGCAGGGCCCCAGGGTGGACTTTTTGAAACCCTCT
	GACTGGTTCAAGTTTAAGCAGAAGAAGGAGGCAGAGTCGTCCCGGGTCCCACCTGAAAAACTTTGGGAGA LTKFKFVFFLRLSRAQGGGCAGAGTCGTCCCGGGTCCCACCTGAAAAACTTTGGGAGA
	GTGATCAACTCCTGGATATACCTGGCACAATCAGGAAGCAGACATTCATGGCCATGCTGCTGAAGCTGCG CACTAGTTGAGGACCTATATGGACCGTGTTAGTCCTTCGTCTGTAAGTACCGGTACGACGACTTCGACGC C D Q L L D I P G T I R K Q T F M A M L L K L R
	GCAGAGGGTTCTTTTCCTTCATGATGCCTACAATGAATTCAAGCCCCCAGAACTGCCCAGAAATCGAAGCC CGTCTCCCAAGAAAAGGAAGAACTACCGATGTTACTTAAGTTCGGGGTCTTGACGGGTCTTTAGCTTCGG Q
	CTGATAAAGGAAAACCACCGCTTCAAGAACATGGTCATCGTCACCACTACCACTGAGTGCCTGAGGCACA
	GACTATTTCCTTTTGGTGGCGAAGTTCTTGTACCAGTAGCAGTGGTGACTGAGTGCCTGAGGCACA L K E N H R F K N M V V T T T T E C L R H
	TACGGCAGTTTGGTGCCCTGACTGCTGAGGTGGGGGATATGACAGAAGACAGCGCCCAGGCTCTCATCCGATGCCGTCAAACCACGGGACTGACGACTCCACCCCCTATACTGTCTTCTGTCGCGGGTCCGAGAGTAGGC
	AGAAGTGCTGATCAAGGAGCTTGCTGAAGGCTTGTTGCTCCAAATTCAGAAATCCAGGTGCTTGAGGAAT
	TCTTCACGACTAGTTCCTCGAACGACTTCCGAACAACGAGGTTTAAGTCTTTAGGTCCACGAACTCCTTA EVLIKELAEGLLQIQKSRC
1471	CTCATGAAGACCCCTCTCTTTGTGGTCATCACTTGTGCAATCCAGATGGGTGAAAGTGAGTTCCACTCTC
	GAGTACTTCTGGGGAGAAACACCAGTAGTGAACACGTTAGGTCTACCCACTTTCACTCAAGGTGAGAG
1541	ACACACAAACAACGCTGTTCCATACCTTCTATGATCTGTTGATACAGAAAAACAAAC
514	TGTGTGTTTGTTGCGACAAGGTATGGAAGATACTAGACAACTATGTCTTTTTGTTTTGTTATTTCC H T Q T T L F H T F Y D L L I Q K N K H K H K G
	TGTGGCTGCAAGTGACTTCATTCGGAGCCTGGACCACTGTGGAGACCTAGCTCTGGAGGGTGTGTTCTCC ACACCGACGTTCACTGAAGTAAGCCTCGGACCTGGTGACACCTCTGGATCGAGACCTCCCACACAAGAGG
537	V A A S D F I R S L D H C G D L A L E G V F S
	CACAAGTTTGATTTCGAACTGCAGGATGTGTCCAGCGTGAATGAGGATGTCCTGCTGACAACTGGGCTCC GTGTTCAAACTAAAGCTTGACGTCCTACACAGGTCGCACTTACTCCTACAGGACGACTGTTGACCCGAGG
561▶	H_K_F_D_F_E_L_Q_D_V_S_S_V_N_E_D_V_L_L_T_T_G_L

Page 8 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

1751 TCTGTAAATATACAGCTCAAAGGTTCAAGCCAAAGTATAAATTCTTTCACAAGTCATTCCAGGAGTACAC AGACATTTATATGTCGAGTTTCCAAGTTCGGTTTCATATTTAAGAAAGTGTTCAGTAAGGTCCTCATGTG 584 L C K Y T A Q R F K P K Y K F F H K S F Q E Y T
AGCAGGACGAAGACTCAGCAGTTTATTGACGTCTCATGAGCCAGAGGAGGTGACCAAGGGGAATGGTTAC TCGTCCTGCTTCTGAGTCGTCAAATAACTGCAGAGTACTCGGTCTCCTCCACTGGTTCCCCTTACCAATG 607▶ A G R R L S S L L T S H E P E E V T K G N G Y
1891 TTGCAGAAAATGGTTTCCATTTCGGACATTACATCCACTTATAGCAGCCTGCTCCGGTACACCTGTGGGT AACGTCTTTTACCAAAGGTAAAGCCTGTAATGTAGGTGAATATCGTCGGACGAGGCCATGTGGACACCCA 631 L Q K M V S S D T S T Y S S L L R Y T C G
1961 CATCTGTGGAAGCCACCAGGGCTGTTATGAAGCACCTCGCAGCAGTGTATCAACACGGCTGCCTTCTCGG GTAGACACCTTCGGTGGTCCCGACAATACTTCGTGGAGCGTCGTCACATAGTTGTGCCGACGGAAGAGCC 654 S S V E A T R A V M K H L A A V Y Q H G C L L G
2031 ACTITCCATCGCCAAGAGGCCTCTCTGGAGACAGGAATCTTTGCAAAGTGTGAAAAACACCACTGAGCAA TGAAAGGTAGCGGTTCTCCGGAGAGACCTCTGTCCTTAGAAACGTTTCACACTTTTTGTGGTGACTCGTT 677 LSIAKRPLWRQESLQSVKNTTEQ
2101 GAAATTCTGAAAGCCATAAACATCAATTCCTTTGTAGAGTGTGGCATCCATTTATATCAAGAGAGTACAT CTTTAAGACTTTCGGTATTTGTAGTTAAGGAAACATCTCACACCGTAGGTAAATATAGTTCTCATGTA 701 E L K A N N S F V E C G H L Y Q E S T
2171 CCAAATCAGCCCTGAGCCAAGAATTTGAAGCTTTCTTTCAAGGTAAAAGCTTATATATCAACTCAGGGAA 'GGTTTAGTCGGGACTCGGTTCTTAAACTTCGAAAGAAAGTTCCATTTTCGAATATATAGTTGAGTCCCTT 724 S K S A L S Q E F E A F F Q G K S L Y I N S G N
2241 CATCCCCGATTACTTATTTGACTTCTTTGAACATTTGCCCAATTGTGCAAGTGCCCTGGACTTCATTAAA GTAGGGGCTAATGAATAAACTGAAGAAACTTGTAAACGGGTTAACACGTTCACGGGACCTGAAGTAATTT 747
2311 CTGGACTTTTATGGGGGAGCTATGGCTTCATGGGAAAAGGCTGCAGAAGACACAGGTGGAATCCACATGG GACCTGAAAATACCCCCTCGATACCGAAGTACCCTTTTCCGACGTCTTCTGTGTCCACCTTAGGTGTACC 771 L D F Y G G A M A S W E K A A E D T G G I H M
2381 AAGAGGCCCCAGAAACCTACATTCCCAGCAGGGCTGTATCTTTGTTCTTCAACTGGAAGCAGGAATTCAG TTCTCCGGGGTCTTTGGATGTAAGGGTCGTCCCGACATAGAAACAAGAAGTTGACCTTCGTCCTTAAGTC 794 E E A P E T Y ! P S R A V S L F F N W K Q E F R
2451 GACTCTGGAGGTCACACTCCGGGATTTCAGCAAGTTGAATAAGCAAGATATCAGATATCTGGGGAAAATA CTGAGACCTCCAGTGTGAGGCCCTAAAGTCGTTCAACTTATTCGTTCTATAGTCTATAGACCCCTTTTAT 817 T L E V T L R D F S K L N K Q D I R Y L G K I
2521 TTCAGCTCTGCCACAAGCCTCAGGCTGCAAATAAAGAGATGTGCTGGTGTGGCTGGAAGCCTCAGTTTGG AAGTCGAGACCGTGTTCGGAGTCCGACGTTTATTTCTCTACACGACCACCGACCTTCGGAGTCAAACC
2591 TCCTCAGCACCTGTAAGAACATTTATTCTCTCATGGTGGAAGCCAGTCCCCTCACCATAGAAGATGAGAGAGGAGTCGTGGACATTCTTCTTAAATAAGAGAGTACCACCTTCGGTCAGGGGAGTGGTATCTTCTACTCTC 864 V L S T C K N I Y S L M V E A S P L T I E D E R

Page 9 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

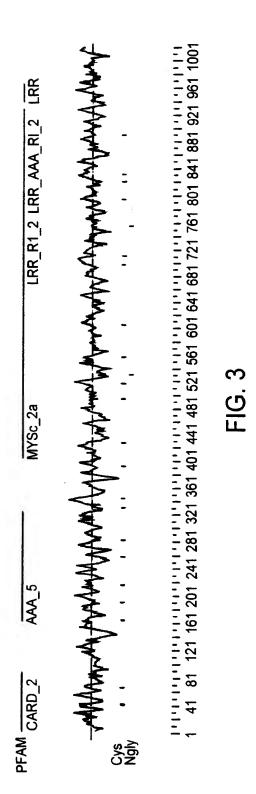
2661 887	GCACATCACATCTGTAACAAACCTGAAAACCTTGAGTATTCATGACCTACAGAATCAACGGCTGCCGGGT CGTGTAGTGTA
2731 911	GGTCTGACTGACAGCTTGGGTAACTTGAAGAACCTTACAAAGCTCATAATGGATAACATAAAGATGAATG CCAGACTGACTGTCGAACCCATTGAACTTCTTGGAATGTTTCGAGTATTACCTATTGTATTTCTACTTAC G L T D S L G N L K N L T K L I M D N I K M N
	AAGAAGATGCTATAAAACTAGCTGAAGGCCCTGAAAAACCTGAAGAAGATGTGTTTATTTCATTTGACCCA TTCTTCTACGATATTTTGATCGACTTCCGGACTTTTTGGACTTCTTCTACACAAATAAAGTAAACTGGGT 'E E D A ! K L A E G L K N L K K M C L F H L T H
2871 957)	CTTGTCTGACATTGGAGAGGGAATGGATTACATAGTCAAGTCTCTGTCAAGTGAACCCTGTGACCTTGAA GAACAGACTGTAACCTCTCCCTTACCTAATGTATCAGTTCAGAGACAGTTCACTTGGGACACTGGAACTT LSD!GEGMDYIVKSLSSEPCDLE
	GAAATTCAATTAGTCTCCTGCTGCTTGTCTGCAAATGCAGTGAAAATCCTAGCTCAGAATCTTCACAATT CTTTAAGTTAATCAGAGGACGACGAACAGACGTTTACGTCACTTTTAGGATCGAGTCTTAGAAGTGTTAA 'E I Q L V S C C L S A N A V K I L A Q N L H N
	TGGTCAAACTGAGCATTCTTGATTTATCAGAAAATTACCTGGAAAAAGATGGAAATGAAGCTCTTCATGA ACCAGTTTGACTCGTAAGAACTAAATAGTCTTTTAATGGACCTTTTTCTACCTTTACTTCGAGAAGTACT LVKLSILDLSENYLEKDGNEA
3081 1027 ▶	ACTGATCGACAGGATGAACGTGCTAGAACAGCTCACCGCACTGATGCTGCCCTGGGGCTGTGACGTGCAA TGACTAGCTGTCCTACTTGCACGATCTTGTCGAGTGGCGTGACTACGACGGGACCCCGACACTGCACGTT L I D R M N V L E Q L T A L M L P W G C D V Q
	GGCAGCCTGAGCAGCCTGTTGAAACATTTGGAGGAGGTCCCACAACTCGTCAAGCTTGGGTTGAAAAACT CCGTCGGACTCGTCGGACAACTTTTTGAAACCTCCTCCAGGGTGTTGAGCAGTTCGAACCCAACTTTTTGA G S L S S L L K H L E E V P Q L V K L G L K N
	GGAGACTCACAGATACAGAGATTAGAATTTTAGGTGCATTTTTTGGAAAGAACCCTCTGAAAAACTTCCA CCTCTGAGTGTCTATGTCTCTAATCTTAAAATCCACGTAAAAAACCTTTCTTGGGAGACTTTTTTGAAGGT WRLTDTEIRILGAFFGKNPLKNFQ
	GCAGTTGAATTTGGCGGGAAATCGTGTGAGCAGTGATGGATG
3361	CTTAAGCAATTAGTGTTTTTTGACTTTAGTACTAAAGAATTTCTACCTGATCCAGCATTAGTCAGAAAAC GAATTCGTTAATCACAAAAAACTGAAATCATGATTTCTTAAAGATGGACTAGGTCGTAATCAGTCTTTTG L K Q L V F F D F S T K E F L P D P A L V R K
3431	TTAGCCAAGTGTTATCCAAGTTAACTTTTCTGCAAGAAGCTAGGCTTGTTGGGTGGCAATTTGATGATGA AATCGGTTCACAATAGGTTCAATTGAAAAGACGTTCTTCGATCCGAACAACCCACCGTTAAACTACTACT L S Q V L S K L T F L Q E A R L V G W Q F D D
3501	TGATCTCAGTGTTATTACAGATGAGAAAGCTCAGATGATTTGCCCCATGGGTTATAAAACTACTTCCTTAC ACTAGAGTCACAATAATGTCTACTCTTTCGAGTCTACTAAACGGGTACCCAATATTTTGATGAAGGAATG D L S V I T D E K A Q M I C P W V I K L L P Y

Page 10 of 16
Appl. No.: 09/697,089
Reply to Notice Regarding Drawings of June 13, 2006
Replacement Sheet

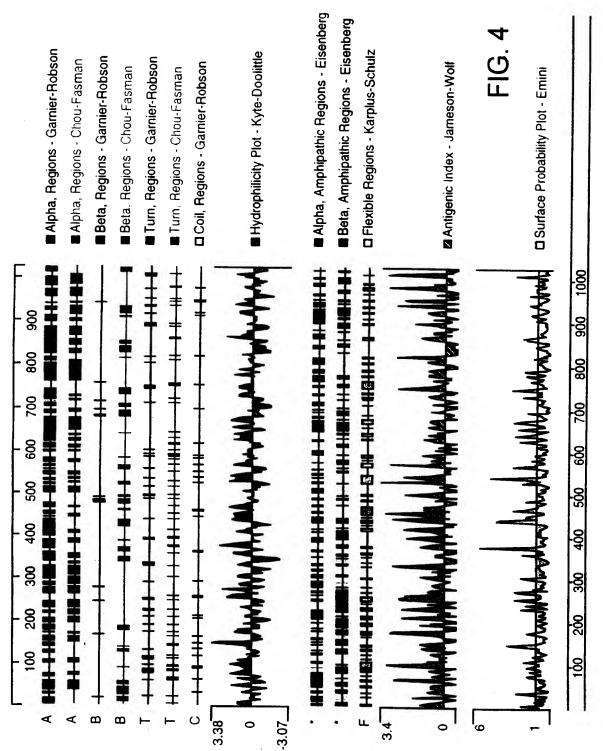
3571 ACAGTGGCAGCATCAGAACTGGAATTCAGATCTCTTGCCTCCTAG
TGTCACCGTCGTAGTCTTGACCTTAAGTCTAGAGAACGGAGGATC
1191 T V A A S E L E F R S L A S

FIG. 2E

Page 11 of 16
Appl. No.: 09/697,089
Reply to Notice Regarding Drawings of June 13, 2006
Replacement Sheet



Page 12 of 16
Appl. No.: 09/697,089
Reply to Notice Regarding Drawings of June 13, 2006
Replacement Sheet



Page 13 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

```
CARD: domain 1 of 1, from 2 to 88: score 16.0, E = 0.0065
                   *->aeddrrllrknrlellgeltlsglLdhLleknvLteeeeEkikaknt
                      + ++ ++ +g +++++ d+L nvL++ee+ i +
     CARD12
                     --NFIKDNSRALIQRMGMTVIKQITDDLFVWNVLNREEVNIICCEKV 46
                  trrdkareLiDsvqkkGnqAfqiFlqaLretdgelladlllde<-*
                   ++ d ar i +++kkG++ +++Fl +L+e ++ l +dl
     CARD12
               47 EQ-DAARGIIHMILKKGSESCNLFLKSLKEWNYPLFQDLNGQS
                                                       FIG. 5A
LRR: domain 1 of 4, from 764 to 791: score 0.6, E = 8.2e+02
                   *->nLeeLdLsnN.Lt....slppglfsnLp<-*
                     nL++L ++n + +++ +l +g ++nL+
                                                     791 FIG. 5B
     CARD12
              764
                     NLTKLIMDNIkMNeedaiKLAEG-LKNLK
LRR: domain 2 of 4, from 821 to 848: score 0.3, E = 9.3e+02
                   *->nLeeLdLsnN.Lt....slppglfsnLp<-*
                      Lee+ L ++ L+ + ++ ++nL
                                                    848 FIG. 5C
     CARD12
              821
                     DLEEIQLVSCcLSanavKILAQNLHNLV
LRR: domain 3 of 4, from 849 to 872: score 11.2, E = 23
                   *->nLeeLdLsnN.LtslppglfsnLp<-*
                     +L LdLs N L++ +++++ L
                                                       FIG. 5D
     CARD12
              849
                                                872
                     KLSILDLSENYLEKDGNEALHELI
LRR: domain 4 of 4, from 938 to 965: score 4.2, E = 2.5e+02
                   *->nLeeLdLsnN.Lt....slppglfsnLp<-*
                     n + L+L +N+ ++++
                                      +
     CARD12
                     NFQQLNLAGNrVSsdgwlAFMG-VFENLK
              938
                                                     965
```

FIG. 5E

Page 14 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

E.L					
EQL	. L	. L . S A L N S V C I V	EGE.G.G EGEAGSG	KLLI.	A.LW.SG Consensus #1 AFLWGSG Majority
	10		20	30	40
1 EQL 1 EPL	TLNGLLQ. VLPEVFG	ALQSPCII NLNSVMCV	EGESGKO	KSTLLQRI KTVLLKKI	AMLWGSGCARD12-C AFLWASGNATP-C
. C .	. L F	JF.L.LS.	. R G L	C D Q L :	LG Consensus #1
KCK.	ALTKFQLY 50	/ F F L S L S S	TRADGGI 60		LDIEGSV Majority
41 K C K		V F F L R L S -		70 JEET IJC DO 1	BO LDIPGTI CARD12-C
41 CCP	LLNREQL	VFYLSLSS	TRPDEGI	ASIICDOL	LEKEGSV NATE-C
 T E O	• • • • • • • • • • • • • • • • • • •	. L V L F	LLD.Y.E		I L Consensus #1
1 E U	90	DEKNOVEF	LLDGYNE 100	IKPONCSI 110	POVIGAL Majority
79 R K Q	TFMAMLL	KLRQRVLF	LLDGYNE	EFKPONCPE	120 EAL CARD12-C
81 TEM	CMRNIIQ	DILKNOVLE	<u>rrp</u> p x E	IICSI	PQVIGKL NATEC
I	NH	т .	R . I R .	E .	· · · · · . Consensus #1
IVE	130	/ L V A V T T E	140	150	GAFTEDS Majority
116 I K E	I	VIVTTTTE		1	160 G D M T E D S CARD12-C
117 I Q K	NHLSRTC:	LLIAVRTN	RARDIRE	YLETILEI	QAFPFYN NAIP-C
	R		k	· T. ,	KTPLFV. Consensus #1
				😐	TI TO THE TENTON
<u>AVA</u>	LLREVLII	KELAELRG	LLVOIGK	SOSLONLO	KTPLFVA Majority
	LLREVLII	(ELAELRG	LLVQIGK 180	SQSLQNLQ1 190	KTPLFVA Majority
156 A Q A	LLREVLII 170 LIREVLII	KELAELRG	LLVQIGK 180 LLLQIOK	SOSLONLOI 190 SRCLRNLM	X T P L F V V CARDI2-C
156 A Q A 157 T V C	LIREVLII 170 LIREVLII ILRKLFSI	KELAELRG KELAE G HNMTRLRK	LLVQIGK 180 LLLQIQK FMVYFGK	190 SRCLRNLM NQSLQKIQ	200 KTPLFVV CARD12-C KTPLFV A NAIP-C
156 A Q A 157 T V C	LIREVLII 170 LIREVLII LRKLFSI	KELAELRG KELAE G HNMTRLRK	LLVQIGK 180 LLLQIQK FMVYFGK	190 SRCLRNLM NQSLQKIQ	X T P L F V V CARDI2-C
156 A Q A 157 T V C C A	170 L I R E V L I I I L R K L F S I A A I Q W G E S I	KELAELRG KELAE G HNMTRLRK .F	LLVQIGK 180 LLLQIQK FMVYFGK F VAVFKSF	190 190 SRCLRNLM NQSLQKIQ L	ZOO KTPLFV A Majority 200 KTPLFV V CARD12-C KTPLFV A NATP-C K Consensus #1 KHKHKGV Majority 240
156 A Q A 157 T V C C A I C .	L L R E V L I I 170 L I R E V L I I I L R K L F S I A I Q W G E S I A I Q M G E S I	KELAELRG KELAE G HNMTRLRK F EFDSSFTD	LLVQIGK 180 LLLQIQF FMVYFGF F VAVFKSF 220	190 190 SRCLRNLM NQSLQKIQLN1 YDLLILKNI	X T P L F V A Majority 200 K T P L F V V CARD12-C K T P L F V A NAIP-C X Consensus #1 X H K H K G V Majority 240
156 A Q A 157 T V C C A I C . 194 I T C . 197 A I C	L L R E V L I I 170 L I R E V L I I I L R K L F S I A A I Q W G E S I A I Q M G E S I A I Q M G E S I A I Q M G E S I	KELAELRG KELAE G HNMTRLRK F FFDSSFTD EFHSH - TC	LLVQIGK 180 LLLQIQF FMVYFGF F VAVFKSF 220 TTLFHTF	190 190 SRCLRNLM NQSLQKIQ L NI YDLLILKNI 230 YDLLIQKN MERLSLRN	ZOO K T P L F V V CARD12-C K T P L F V V CARD12-C K T P L F V A NAIP-C K
156 A Q A 157 T V C C A I C . 194 I T C . 197 A I C	L L R E V L I I 170 L I R E V L I I I L R K L F S I A A I Q W G E S I A I Q M G E S I A I Q M G E S I A I Q M G E S I	KELAELRG KELAE G HNMTRLRK F FFDSSFTD EFHSH - TC PFDPSFDE	LLVQIGK 180 LLLQIQF FMVYFGK F VAVFKSF 220 TTLFHTF VAVFKSY	190 190 SRCLRNLM NQSLQKIQLNI YDLLILKNI 230 YDLLIQKN MERLSLRN	X T P L F V A Majority 200 K T P L F V V CARD12-C K T P L F V A NAIP-C X Consensus #1 X H K H K G V Majority 240
156 A Q A 157 T V C C A I C . 194 I T C . 197 A I C	L L R E V L I I 170 L I R E V L I I I L R K L F S I A A I Q W G E S I A I Q M G E S I A I Q M G E S I A I Q M G E S I	KELAELRG KELAE G HNMTRLRK F EFDSSFTD EFHSH-TC PFDPSFDD	LLVQIGK 180 LLLQIQF FMVYFGK F VAVFKSF 220 TTLFHTF VAVFKSY	190 190 SRCLRNLM NQSLQKIQLNI YDLLILKNI 230 YDLLIQKN MERLSLRN	X T P L F V A 200 K T P L F V V CARD12-C K T P L F V A NAIP-C X Consensus #1 X H K H K G V Majority 240 K H K H K G V CARD12-C K H K H K G V CARD12-C K H K H K G V CARD12-C X V . E Consensus #1
156 A Q A 157 T V C C A I C 194 I T C 197 A I C A A A A	L L R E V L I I 170 L I R E V L I I I L R K L F S I A A I Q W G E S I 210 A I Q M G E S I A - H W F Q Y I D I L K A T V S 250 D F I R S - L I	KELAELRG KELAE G HNMTRLRK F EFDSSFTD EFHSH - TC PFDPSFDE	LLVQIQK 180 LLLQIQK FMVYFGK F VAVFKSF 220 TTLFHTF VAVFKSY .G.FS EGVFSHK	190 190 SRCLRNLM NQSLQKIQLNI YDLLILKNI 230 YDLLIQKNI MERLSLRN F.FD. FDFELDDV	200 K T P L F V V CARD12-C K T P L F V V CARD12-C K T P L F V A NAIP-C K H K H K G V Majority 240 K H K H K G V CARD12-C K H K H K G V CARD12-C NAIP-C V . E Consensus #1 A E A G V D E Majority 280
156 A Q A 157 T V C C A I C 194 I T C 197 A I C A A A 233 A A S 230 A T A	L L R E V L I I 170 L I R E V L I I I L R K L F S I A A I Q W G E S I 210 A I Q M G E S I A - H W F Q Y I D I L K A T V S D F I R S - L I E I L K A T V S	KELAELRG KELAE G HNMTRLRK F FFDSSFTD EFFDSSFTD CG.LAL SSCGDLAL	LLVQIGK 180 LLLQIQK FMVYFGK F VAVFKSF 220 TTLFHTF VAVFKSY G.FS EGVFSHK 260 EGVFSHK KGFFSC	190 190 190 SRCLRNLM NQSLQKIQLNI YDLLILKN 230 YDLLILKN MERLSLRN F.FD. FDFELDDV 270 FFFFNDDDL	ZOO K T P L F V V CARD12-C K T P L F V V CARD12-C K T P L F V A NAIP-C K H K H K G V Majority 240 K H K H K G V CARD12-C K H K H K G V CARD12-C NAIP-C L CONSENSUS #1 Majority 280 S S V N E CARD12-C A E A G V D E NAIP-C
156 A Q A 157 T V C C A I C A I C 194 I T C 197 A I C A A A 233 A A S 230 A T A D	L L R E V L I I 170 L I R E V L I I I L R K L F S I A A I Q W G E S I 210 A I Q M G E S I A - H W F Q Y I D I L K A T V S E I L K A T V S	KELAELRG KELAE G KELAE G HNMTRLRK F EFDSSFTD EFHSH-TC EFDSSFTD C.CG.LAL ESCGDLAL	LLVQIGK 180 LLLQIQK FMVYFGK F VAVFKSF 220 TTLFHTF VAVFKSY .G.FS EGVFSHK 260 P.Y.F	190 190 SRCLRNLM NQSLQKIQLNI YDLLILKNI 230 YDLLILKNI EFDFELDDV 270 FFDFELQDV FFFFNDDDL	200 K T P L F V V CARD12-C K T P L F V V CARD12-C K T P L F V A NAIP-C K H K H K G V Majority 240 K H K H K G V CARD12-C NAIP-C V . E Consensus #1 A E A G V D E Majority 280 S S V N E CARD12-C A E A G V D E NAIP-C G . R L L Consensus #1
156 A Q A 157 T V C C A I C A I C 194 I T C 197 A I C A A A 233 A A S 230 A T A D	L L R E V L I I 170 L I R E V L I I I L R K L F S I A A I Q W G E S I 210 A I Q M G E S I A - H W F Q Y I D I L K A T V S E I L K A T V S	KELAELRG KELAE G KELAE G HNMTRLRK F EFDSSFTD EFHSH-TC EFDSSFTD C.CG.LAL ESCGDLAL	LLVQIGK 180 LLLQIQK FMVYFGK F VAVFKSF 220 TTLFHTF VAVFKSY .G.FS EGVFSHK 260 P.Y.F	190 190 SRCLRNLM NQSLQKIQLNI YDLLILKNI 230 YDLLILKNI EFDFELDDV 270 FFDFELQDV FFFFNDDDL	ZOO K T P L F V V CARD12-C K T P L F V V CARD12-C K T P L F V A NAIP-C K H K H K G V Majority 240 K H K H K G V CARD12-C K H K H K G V CARD12-C NAIP-C L CONSENSUS #1 Majority 280 S S V N E CARD12-C A E A G V D E NAIP-C
156 A Q A 157 T V C C A I C 194 I T C 197 A I C A A A 233 A A S 230 A T A D D V L	170 LIREVLII LIREVLII LIRKLFSI A AIQWGESI AIQWGESI AIQWGESI DILKATVS 250 DFIRS-LI EILKATVS LTTGLLSI 290 LTTGLLSI	KELAELRG KELAE G KELAE -	LLVQIGK 180 LLLQIQF FMVYFGK F VAVFKSF 220 TTLFHTF VAVFKSF 260 EGVFSHK 260 P.Y.F PKYKFLS	190 190 SRCLRNLM NQSLQKIQ LNI YDLLILKNI 230 YDLLILKNI MERLSLRN F.FD. FDFELDDV 270 FFFFNDDDL FQEAC KAFQEFLAC	200 K T P L F V V CARD12-C K T P L F V V CARD12-C K T P L F V A NAIP-C K

Page 15 of 16 Appl. No.: 09/697,089 Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

	3																						·				Commence	#1
I	S	3 . 3 D	 ЕО	E	 E V	· T	. G L G	} . } L	G 1	. L H L	 Q Q	} I	. S	: I	 S D	·	. S V S	A	Y. YS	s:	. L L L	N	1 . Y V	s (G L	s	Consensus Majority	π.
_		-				330						:	340						35	0					3	360		
310 [1 310 [1	L T L D	S H S D	E E	E	E V	7 T Q D	K C	3 N	G Y	Y L H L	Q I	K M Q I	V S	S I S P	S I) I 1 T	TS	TA	Y S Y N	S	L L F L	R	r Y V	C	G - S L	S	CARD12-C NAIP-C	
<u> </u>	s. sv	. A E A	 G F	L A	 V V	 7 S	н I н I	. A	A	 v v	D I	1 K	G S	. L	 L G	L	s. si	A	 D D	Y	L.	Н	Q. QE	S	13	+	Consensus Majority	#1
				_		370							380						39		- 1-		<u> </u>			400		
349 [350 [S T	KL <u>A</u>	G 1	P K	I	V S	H_	L) I	H	LV	D	NK	E	SLL	HEI	N T	ו וכו	5 IA	ים	J 1		. 11,	، نعد		. .	Ī	CARD12-C NAIP-C	
-	 ом	 Q L	L L(2 G	V 1	KN	I	T E	Q 2 Q	 A I	L	 S A	V.	SI	N 1	 L <u>L</u>	V V	 . A	G 1	 [<u>T</u> 30	A 3	r Q r O	s s	T	 V A	A 440	Consensus Majority	1 #1
						410			_ []				420		- 37	G F	गरन	F C		•	τ.Ι.	VΛ	F	S T	S K	-7-		
385 390	QM	QI	الماء	R G	L	W Q	I	C :	PLO	A :	Œ	SI	4 V	5 E	H	יי	, (V)	LA	. 11	к 1	ΑL		, .	.,	, ,	<u></u>	CARD12-C NAIP-C	
	: :					F.	Q	G G	 z c	L .	 r t.			N.	P	. У В У		 F D	F I	F. FD	H H:	. P L P	E :	s A	S.	L	Consensus Majority	5 #T
,	A L	SC	2 V	L E	Α_	도 무 45	-	<u>G 1</u>	<u> </u>	<u> </u>		<u> </u>	460		<u> </u>					70						480		
421 430	A L	S (Q E F V	F E	A -	E) E	10	G G	K S R T	L	Y I T L	N G	S G A L	N I	P	D)	Y -	F I	F	F E	н	L F	NE	C A S L	S I	A L	CARD12-C NAIP-C	
	 D S	I I I	 K L	 S I	R	G.	A	T.	 A S	· R	 A K	A	 A V	LI	G	G	 I D	 K S	E	. P A P	T	 I E	E	. Y Т Y	·i	7	_ MAJORICY	
						49	-						500	-						10					T	52	_	
461 464	D F	I	K L H F	DE	Y	G (N K	M	A S	W R	E K A H	F	A E S V	L:	r G E T	C	I H F D	M H	E E S Q	A I	? - 2] T	II	- E	D	Z –	PS - A	CARD12-C	
	. A	V	 S L	F N	 1 E	W W	E Q	E	 L A	T	. E	v	 T V	K	 S F	s	 D L	N I	 (<u>0</u>	 A I	T	. I D I	. G	т с	F	s s	Consensu Majority	
							30						54	_						550						56		
498 502	R Z	A V A F	S L E P	F M	F N N E	W	K C) E R N	F I	R T A E	L E	V E D	T L N V	R	D F S Y	M	K L D M	N Q	K Q R R	D :	I T S P	D J	ப் G ப் S	T	I F G Y	S S W F	CARD12-C	
	<u>A :</u>	 S <u>S</u>	 L O	L (. I O I	K	. c	: . : A	G '	 V A	 G S	3 L	s i	V	 L S	T	 С К	N	 I Y	. 1 S 7	L. LE	V I	D A	s I	 D L	ı ¦	. Consensu / Majority r	
							70				_		56							5 <u>9</u> 0		-					<u> </u>	_
538 542	A	TS SP	L F	L	Q J	[] -	PU	<u> </u>	_											- [<u>ت نيا</u>	וצוי	ע ע	14	ם ז	ן	I CARD12-C	
	V	G E	 D F	L	T]	 . <u>v</u>	1 T		T	 V L	s s	 I H	DI	 <u>.</u> A	. c	R	L E	G	. L G L	T	ט ט	i.	 G N	· L :	K G	<u></u>	. Consens I Majorit	us #1 Y
							510							20						630							40	<u> </u>
578 562	3 E 2 V	D E	RI	I I	T :	S V I L	T:	N I	K	T L V F	S		-	- A	SU	<u> </u>	LI	e G E L	G I	T N	D S	L Z	G 1	1 L	K N R G	F	T CARD12- I NAIP-C	C
													-1/	$\overline{}$														

Page 16 of 16 Appl. No.: 09/697,089

Reply to Notice Regarding Drawings of June 13, 2006 Replacement Sheet

ELIRDALELSEASAIKLAEGLKNLKKMCLISLLELSAAGE Majority 670 650 660 680 618 KLIMDNIKMNEEDAIKLAEGLKNLKKMCLFHLTHLSDIGE CARD12-C 592 ESTRPALELSKASVTK ------CSISKLELSAAEQ MATP-C . . S L . S L E N Consensus #1 GLLLIVKSLSSEPCDLEEIQLVSCCLVAGAVQILAQILHN Majority 700 710 690 658 GMDYIVKSLSSEPCDLEEIQLVSCCLSANAVKILAQNLHIN CARD12-C 621 ELLLTLPSLES - - - LE - - - - - VSGTIQSQDQIFPN MATE-C L.K...L.L.E.....GN......I........L. Consensus #1 LVKLSILDLSELSVDLDGNIAVHSVIPDEFNVLEQLTALL Majority 750 730 698 LVKLSILDLSENYLEKDGNEALHELI - DRMNVLEQLTALM CARD12-C 648 LIDKF - - LICLKELSVDLEGNINVFSVIPEEFPNFHHMEKLL MATP-C . L . . L . L . . D . E . . Consensus #1 LQIGADVDGSLSSLVASLEEVISLVILGLEGQQLTDTEIS Majority 770 790 800 737 LPWGCDVQGSLSSLLKHLEEVPQLVKLGLKNWRLTDTEIR CARD12-C 686 IQISAEYDP - - SKLVASLPNFISLKILNLEGQQFPDEETS MATP-C ILGAFIGLGSLSNLEELILAGGDVSSDGWLAFMGVFEVAK Majority 810 820 830 840 777 ILGAFFGKNPLKNFQQLNLAGNRVSSDGWLAFMGVFENLK CARD12-C 724 EKFAYI - LGSLSNLEELILPTGD - - - - - - - GIYRVAK MAIP-C ..L...L..F.... LLVFFDFSTKEFLPDPALVQQLSQVLSVLSFLQTARLVGW Majority 850 860 870 880 817 QLVFFDFSTKEFLPDPALVRKLSQVLSKLTFLQEARLVGW CARD12-C Consensus #1 Majority 890 CARD12-C 857 QFDDDDLSVITGAFKLVTA 773 - LNDDSVVEII - - - - - - G NAIP-C

Consensus 'Consensus #1': When all match the residue of CARD12-C show the residue of CARD12-C, otherwise show '.'.

Decoration 'Decoration #1': Box residues that match the consensus named 'Consensus #1' exactly.

FIG. 6C